

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A film heating element, ~~at least comprising~~ an aluminum substrate, an electrically insulating layer which is based on a sol-gel precursor, and an electrically resistive layer with a thickness smaller than 2 μm , with the electrically insulating layer positioned between the aluminum substrate and the electrically resistive layer thereby insulating the aluminum substrate from the electrically resistive layer.
2. (Currently amended) ~~A~~The film heating element as claimed in claim 1, wherein the electrically resistive layer comprises an inorganic material.
3. (Currently amended) ~~A~~The film heating element as claimed in claim 1, wherein the sol-gel precursor is a hybrid sol-gel precursor comprising an organosilane compound.
4. (Currently amended) ~~A~~The heating element as claimed in claim 3, ~~characterized in that~~wherein the organosilane compound comprises methyl-trimethoxysilane or methyl-triethoxysilane.
5. (Currently amended) ~~A~~The heating element as claimed in claim 1, wherein the

heating element further comprises a conductive layer in contact with the electrically resistive layer.

6. (Currently amended) An electrical domestic appliance comprising ~~at least a heating element in accordance with claim 1~~ comprising an aluminum substrate, an electrically insulating layer which is based on a sol-gel precursor, and an electrically resistive layer with a thickness smaller than 2 μm , with the electrically insulating layer positioned between the aluminum substrate and the electrically resistive layer thereby insulating the aluminum substrate from the electrically resistive layer.

7. (Currently amended) ~~An~~ The electrical domestic appliance according to claim 6, ~~characterized in that~~ wherein the electrical domestic appliance comprises a (steam) iron, a hair dryer, a hair styler, a steamer and a steam cleaner, a garment cleaner, a heated ironing board, a facial steamer, a kettle, a pressurized boiler for system irons and cleaners, a coffee maker, a deep-fat fryer, a rice cooker, a sterilizer, a hot plate, a hot-pot, a grill, a space heater, a waffle iron, a toaster, an oven, or a water flow heater.

8. (Currently amended) A method of manufacturing a heating element ~~according to claim 1, at least~~ the method comprising the ~~steps~~ acts of: providing an aluminum substrate; applying an electrically insulating layer on said substrate by a sol-gel process; and applying a resistive layer having a thickness smaller than 2 μm on top of the electrically insulating layer thereby insulating the aluminum substrate from the resistive layer, ~~characterized in~~

~~that the electrically insulating layer is obtained by means of a sol-gel process and the resistive layer has a thickness smaller than 2 μm .~~